

CPC**COOPERATIVE PATENT CLASSIFICATION****D06N**

WALL, FLOOR OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR (laminates in general B32B; coated webs which retain the character of paper or cardboard D21)

NOTE

Layered products classified in this subclass are also classified in subclass B32B.

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[D06N 7/02](#) covered by D06M, D06N
[D06N 7/04](#) " " D06M, D06N
[D06N 7/06](#) " " D06M, D06N

D06N 1/00

Linoleum {e.g. linoxyn, polymerised or oxidised resin}

D06N 3/00

Artificial leather, oilcloth or { other } material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof

D06N 3/0002

. { characterised by the substrate}

D06N 3/0004

.. { using ultra-fine two-component fibres, e.g. island/sea, or ultra-fine one component fibres (< 1 denier)}

D06N 3/0006

.. { using woven fabrics}

D06N 3/0009

.. { using knitted fabrics}

D06N 3/0011

.. { using non-woven fabrics}

D06N 3/0013

.. { using multilayer webs}

D06N 3/0015

.. {using fibres of specified chemical or physical nature, e.g. natural silk}

D06N 3/0018

... {Collagen fibres or collagen on fibres}

D06N 3/002

... {Asbestos fibres}

D06N 3/0022

... {Glass fibres}

D06N 3/0025

... { Rubber threads; Elastomeric fibres; Stretchable, bulked or crimped fibres; Retractable, crimpable fibres; Shrinking or stretching of fibres during manufacture; Obliquely threaded fabrics}

D06N 3/0027

.... { Rubber or elastomeric fibres}

WARNING

Groups [D06N 3/0027-D06N 3/0031](#) are not complete, pending

reorganisation. See also [D06N 3/0025](#)

- D06N 3/0029 { Stretchable fibres; Stretching of fibres during manufacture}
- D06N 3/0031 { Retractable fibres; Shrinking of fibres during manufacture }
- D06N 3/0034 . . . { Polyamide fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/0036 . . . { Polyester fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/0038 . . . { Polyolefin fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/004 . . { using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application}

- D06N 3/0043 . { characterised by their foraminous structure; Characteristics of the foamed layer or of cellular layers (foraminous structure obtained by stretching [D06N 3/0029](#))}
- D06N 3/0045 . . { obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschierverfahren für Schaumschicht}
- D06N 3/0047 . . { obtained by incorporating air, i.e. froth }
- D06N 3/005 . . { obtained by blowing or swelling agent}
- D06N 3/0052 . . { obtained by leaching out of a compound, e.g. water soluble salts, fibres or fillers; obtained by freezing or sublimation; obtained by eliminating drops of sublimable fluid}
- D06N 3/0054 . . { obtained by mechanical perforations}

- D06N 3/0056 . [N: characterised by the compounding ingredients of the macro-molecular coating ([D06N 3/005](#) takes precedence)
- D06N 3/0059 . . { Organic ingredients with special effects, e.g. oil- or water-repellent, antimicrobial, flame-resistant, magnetic, bactericidal, odour-influencing agents; perfumes ([D06N 3/0065](#) takes precedence)}
- D06N 3/0061 . . {Organic fillers or organic fibrous fillers, e.g. ground leather waste, wood bark, cork powder, vegetable flour; Other organic compounding ingredients; Post-treatment with organic compounds}
- D06N 3/0063 . . {Inorganic compounding ingredients, e.g. metals, carbon fibres, Na₂CO₃, metal layers; Post-treatment with inorganic compounds}
- D06N 3/0065 . . { Organic pigments, e.g. dyes, brighteners}
- D06N 3/0068 . . { Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules }

- D06N 3/007 . { characterised by mechanical or physical treatments ([D06N 3/0029](#), [D06N 3/0031](#) take precedence)}
- D06N 3/0072 . . {Slicing; Manufacturing two webs at one time}
- D06N 3/0075 . . {Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating [D06N 3/004](#))}
- D06N 3/0077 . . {Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish}
- D06N 3/0079 . . {Suction, vacuum treatment}
- D06N 3/0081 . . { by wave energy or particle radiation ([D06N 3/08](#) takes precedence)}
- D06N 3/0084 . . {by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic}

- D06N 3/0086 . {characterised by the application technique}

- D06N 3/0088 .. { by directly applying the resin ([D06N 3/0045](#) takes precedence)}
- D06N 3/009 ... {by spraying components on the web ([powder D06N 3/0093](#))}
- D06N 3/0093 ... {by applying resin powders; by sintering}
- D06N 3/0095 .. {by inversion technique; by transfer processes}
- D06N 3/0097 ... {Release surface, e.g. separation sheets; Silicone papers}

- D06N 3/02 . with cellulose derivatives

- D06N 3/04 . with macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds

- D06N 3/042 .. { Acrylic polymers ([D06N 3/045](#) takes precedence)}
- D06N 3/045 .. { with polyolefin or polystyrene (co-)polymers}
- D06N 3/047 .. {with fluoropolymers}
- D06N 3/06 .. with polyvinylchloride or its copolymerisation products {(surface treatment or foaming for floor coverings [D06N 7/0007](#))}
- D06N 3/065 ... {PVC together with other resins except polyurethanes (with polyurethanes [D06N 3/144](#))}
- D06N 3/08 ... with a finishing layer consisting of polyacrylates, polyamides or polyurethanes {or polyester}
- D06N 3/10 .. with styrene-butadiene copolymerisation products { or other synthetic rubbers or elastomers except polyurethanes}
- D06N 3/103 ... { Thermosetting synthetic rubbers}
- D06N 3/106 ... { Elastomers}

- D06N 3/12 . with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, {e.g. gelatine proteins}

- D06N 3/121 .. {with polyesters, polycarbonates, alkyds ([oils D06N 3/16](#))}
- D06N 3/123 ... { with polyesters}
- D06N 3/125 .. {with polyamides}
- D06N 3/126 ... {Poly-amino acids, e.g. polyglutamates}
- D06N 3/128 .. {with silicon polymers}
- D06N 3/14 .. with polyurethanes
- D06N 3/141 ... { mixture of two or more polyurethanes in the same layer}
- D06N 3/142 ... { mixture of polyurethanes with other resins in the same layer}
- D06N 3/143 {with polyurethanes and other polycondensation or polyaddition products, e.g. aminoplast}
- D06N 3/144 {with polyurethane and polymerisation products, e.g. acrylics, PVC}
- D06N 3/145 ... {two or more layers of polyurethanes}
- D06N 3/146 ... {characterised by the macromolecular diols used}
- D06N 3/147 ... {characterised by the isocyanates used}
- D06N 3/148 {(cyclo)aliphatic polyisocyanates}

- D06N 3/16 . with oil varnishes {i.e. drying oil varnishes, preferably linseed-oil-based; factice ([sulfurised oils](#)), Turkish birdlime, resinates reacted with drying oils; naphthenic metal salts}

- D06N 3/18 . with two layers of different macromolecular materials ([D06N 3/08](#) takes precedence);
{(with two layers of the same kind of macromolecular material [D06N 2213/03](#))}
- D06N 3/183 .. { the layers are one next to the other}
- WARNING**
- Groups [D06N 3/183](#) and [D06N 3/186](#) are not complete, pending reorganisation. See also [D06N 3/18](#)
- D06N 3/186 .. { one of the layers is on one surface of the fibrous web and the other layer is on the other surface of the fibrous web}
- D06N 5/00** { Roofing materials comprising a fibrous web coated with bitumen or another polymer, e.g. pitch (compositions of bituminous materials [C08L 95/00](#), roof covering [E04D 5/00](#), roofing underlays [E04D 12/002](#))}
- D06N 5/003 . { coated with bitumen}
- D06N 5/006 .. { characterised by the means to apply it to a support or to another roofing membrane, e.g. self-adhesive layer or strip}
- D06N 7/00** **Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material**, {e.g. fibrous top layer with resin backing, plastic naps or dots on fabrics}
- D06N 7/0002 . { Wallpaper or wall covering on textile basis}
- WARNING**
- groups [D06N 7/00A](#), [D06N 7/00D-D06N 7/0097](#) are not complete, pending reorganisation. See also [D06N 7/00](#)
- D06N 7/0005 . { Floor covering on textile basis comprising a fibrous substrate being coated with at least one layer of a polymer on the top surface}
- D06N 7/0007 .. {characterised by their relief structure}
- D06N 7/001 ... {obtained by mechanical embossing}
- D06N 7/0013 ... {obtained by chemical embossing (chemisches Prägen)}
- D06N 7/0015 {use of inhibitor for the blowing agent or inhibitor for the kicker e.g. trimellitic anhydride, triazole}
- D06N 7/0018 {use of kicker for the blowing agent, e.g. Beschleunigungsverfahren}
- D06N 7/0021 {use of a swelling agent}
- D06N 7/0023 ... {obtained by physical means, e.g. differential heating or differential irradiation; masking certain areas during treating}
- D06N 7/0026 ... {obtained by moulding, e.g. moulding table (tapis moule)}
- D06N 7/0028 .. {characterised by colour effects, e.g. craquelè, reducing gloss (terrazzo by sintering [D06N 7/0057](#))}
- D06N 7/0031 ... {mixture of two or more dyes, pigments, brighteners in the same layer}
- D06N 7/0034 ... {two or more different colour layers}
- D06N 7/0036 .. { characterised by their backing, e.g. secondary backing, back-sizing}

- D06N 7/0039 .. {characterised by the physical or chemical aspects of the layers}
- D06N 7/0042 ... { Conductive or insulating layers; Antistatic layers; Flame-proof layers}
- D06N 7/0044 ... {Sealing or barrier layers, e.g. against solvents, asphalt, plasticisers}
- D06N 7/0047 ... { Special extra layers under the surface coating, e.g. wire threads}
- D06N 7/0049 {Fibrous layer(s); Fibre reinforcement; Fibrous fillers}
- D06N 7/0052 ... { Compounding ingredients, e.g. rigid elements (compounding ingredients of the macromolecular coating [D06N 3/0056](#))}
- D06N 7/0055 {Particulate material such as cork, rubber particles, reclaimed resin particles, magnetic particles, metal particles, glass beads}
- D06N 7/0057 ... {Layers obtained by sintering or glueing the granules together}
- D06N 7/006 .. {characterised by the textile substrate as base web (for intermediate fibrous webs [D06N 7/0049](#))}
- D06N 7/0063 . { Floor covering on textile basis comprising a fibrous top layer being coated at the back with at least one polymer layer, e.g. carpets, rugs, synthetic turf}

WARNING

Groups [D06N 7/00C-D06N 7/0084](#) are not complete, pending reorganisation.
See also [D06N 7/0036](#)

- D06N 7/0065 .. { characterised by the pile}

WARNING

Groups [D06N 7/0065](#), [D06N 7/0068](#) are not complete, pending reorganisation. See also [D06N 7/006](#)

- D06N 7/0068 .. { characterised by the primary backing or the fibrous top layer}
- D06N 7/0071 .. { characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing}
- D06N 7/0073 ... { the back coating or pre-coat being applied as an aqueous dispersion or latex}
- D06N 7/0076 ... { the back coating or pre-coat being a thermoplastic material applied by e.g. extrusion coating, powder coating or laminating a thermoplastic film}
- D06N 7/0078 ... { the back coating or pre-coat being applied as a hot melt}
- D06N 7/0081 ... { with at least one extra fibrous layer at the backing, e.g. stabilizing fibrous layer, fibrous secondary backing}
- D06N 7/0084 ... { with at least one layer obtained by sintering or bonding granules together}
- D06N 7/0086 ... { characterised by the cushion backing, e.g. foamed polyurethane}
- D06N 7/0089 .. { Underlays}
- D06N 7/0092 . { Non-continuous polymer coating on the fibrous substrate, e.g. plastic dots on fabrics}
- D06N 7/0094 . { Fibrous material being coated on one surface with at least one layer of an inorganic material and at least one layer of a macromolecular material}
- D06N 7/0097 . { Web coated with fibres, e.g. flocked}

D06N 2201/00**Chemical constitution of the fibres, threads or yarns**

- D06N 2201/02 . Synthetic macromolecular fibres
- D06N 2201/0209 .. Elastomeric, elastic fibres, e.g. spandex, lycra
- D06N 2201/0218 .. Vinyl resin fibres
- D06N 2201/0227 ... Aromatic vinyl resin, e.g. styrenic (co)polymers
- D06N 2201/0236 ... Vinyl halide, e.g. PVC,PVDC,PVF,PVDF
- D06N 2201/0245 .. Acrylic resin fibres
- D06N 2201/0254 .. Polyolefin fibres
- D06N 2201/0263 .. Polyamide fibres
- D06N 2201/0272 ... Aromatic polyamide fibres
- D06N 2201/0281 .. Polyurethane fibres
- D06N 2201/029 .. Fluoropolymer fibres

- D06N 2201/04 . Vegetal fibres
- D06N 2201/042 .. Cellulose fibres, e.g. cotton
- D06N 2201/045 ... Lignocellulosic fibres, e.g. jute, sisal, hemp, flax, bamboo
- D06N 2201/047 ... Wood fibres

- D06N 2201/06 . Animal fibres , e.g hair, wool, silk

- D06N 2201/08 . Inorganic fibres
- D06N 2201/082 .. Glass fibres
- D06N 2201/085 .. Metal fibres
- D06N 2201/087 .. Carbon fibres

- D06N 2201/10 . Conjugate fibres , e.g. core-sheath, side-by-side
- D06N 2201/12 . Fibres being in the form of a tape, strip or ribbon

<NO TITLE>**D06N 2203/00****Macromolecular materials of the coating layers**

- D06N 2203/02 . Natural macromolecular compounds or derivatives thereof
- D06N 2203/022 .. Natural rubber
- D06N 2203/024 .. Polysaccharides or derivatives thereof
- D06N 2203/026 ... Cellulose or derivatives thereof
- D06N 2203/028 ... Starch or derivatives thereof

- D06N 2203/04 . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- D06N 2203/041 .. Polyacrylic

D06N 2203/042	..	Polyolefin (co)polymers
D06N 2203/044	..	Fluoropolymers
D06N 2203/045	..	Vinyl (co)polymers
D06N 2203/047	...	Arromatic vinyl (co)polymers, e.g. styrene
D06N 2203/048	...	Polyvinylchloride (co)polymers
D06N 2203/06	.	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
D06N 2203/061	..	Polyesters
D06N 2203/063	..	Polycarbonates
D06N 2203/065	..	Polyamides
D06N 2203/066	..	Silicon polymers
D06N 2203/068	..	Polyurethanes
D06N 2203/08	.	Bituminous material, e.g. asphalt, tar, bitumen
D06N 2205/00		Condition, form or state of the materials
D06N 2205/02	.	Dispersion
D06N 2205/023	..	Emulsion, aqueous dispersion, latex
D06N 2205/026	..	Plastisol
D06N 2205/04	.	Foam
D06N 2205/045	..	Froth
D06N 2205/06	.	Melt
D06N 2205/08	.	Microballoons, microcapsules
D06N 2205/10	.	Particulate form, e.g. powder, granule
D06N 2205/103	..	Nanoparticles
D06N 2205/106	..	Scrap or recycled particles
D06N 2205/12	.	Platelets, flakes
D06N 2205/14	.	Fibrous additives or fillers
D06N 2205/16	.	Solution
D06N 2205/18	.	Scraps or recycled materials (D06N 2205/106 takes precedence)
D06N 2205/20	.	Cured materials e.g. vulcanised, cross-linked
D06N 2205/22	.	Partially cured
D06N 2205/24	.	Coagulated materials
D06N 2205/243	..	by heating, steam

D06N 2205/246 . . by extracting the solvent

D06N 2207/00 Treatments by energy or chemical effects

D06N 2207/02 . using vibration

D06N 2207/04 . using steam ([D06N 2205/243](#) takes precedence)

D06N 2207/06 . using liquids. e.g. water

D06N 2207/08 . using gas

D06N 2207/10 . using flames

D06N 2207/12 . by wave energy or particle radiation

D06N 2207/123 . . using electromagnetic radiation, e.g. IR, UV, actinic light, laser, X-ray, gamma-ray, micro-wave, radio frequency

D06N 2207/126 . . using particle radiation, e.g. ion, electron, neutron

D06N 2207/14 . Corona, ionisation, electrical discharge

D06N 2209/00 Properties of the materials

D06N 2209/02 . having acoustical properties

D06N 2209/025 . . Insulating, sound absorber

D06N 2209/04 . having electrical or magnetic properties

D06N 2209/041 . . Conductive

D06N 2209/043 . . Insulating

D06N 2209/045 . . Magnetic, paramagnetic

D06N 2209/046 . . Anti-static

D06N 2209/048 . . Electromagnetic interference shielding

D06N 2209/06 . having thermal properties

D06N 2209/062 . . Conductive

D06N 2209/065 . . Insulating

D06N 2209/067 . . Flame resistant, fire resistant

D06N 2209/08 . having optical properties

D06N 2209/0807 . . Coloured

D06N 2209/0815 . . . on the layer surface, e.g. ink

D06N 2209/0823 . . . within the layer by addition of a colorant, e.g. pigments, dyes

D06N 2209/083 . . . Multi-coloured

D06N 2209/0838 . . Bright, glossy, shiny surface

D06N 2209/0846 . . Matt, dull surface

D06N 2209/0853 . . Opaque

- D06N 2209/0861 .. Transparent
- D06N 2209/0869 .. Translucent
- D06N 2209/0876 .. Reflective
- D06N 2209/0884 .. Refractive
- D06N 2209/0892 .. Luminescent, fluorescent, phosphorescent

- D06N 2209/10 . having mechanical properties
 - D06N 2209/101 .. Vibration damping, energy absorption
 - D06N 2209/103 .. Resistant to mechanical forces e.g. shock, impact, puncture, flexion, shear, compression, tear
 - D06N 2209/105 .. Resistant to abrasion, scratch
 - D06N 2209/106 .. Roughness, anti-slip, abrasiveness
 - D06N 2209/108 .. Slipping, anti-blocking, low friction

- D06N 2209/12 . Permeability or impermeability properties
 - D06N 2209/121 .. Permeability to gases, adsorption
 - D06N 2209/123 ... Breathable
 - D06N 2209/125 ... Non-permeable
 - D06N 2209/126 .. Permeability to liquids, absorption
 - D06N 2209/128 ... Non-permeable

- D06N 2209/14 . having chemical properties
 - D06N 2209/141 .. Hydrophilic
 - D06N 2209/142 .. Hydrophobic
 - D06N 2209/143 .. Inert, i.e. inert to chemical degradation, corrosion resistant
 - D06N 2209/145 .. Oleophobic
 - D06N 2209/146 .. Soilproof, soil repellent
 - D06N 2209/147 .. Stainproof, stain repellent
 - D06N 2209/148 .. Superabsorbing

- D06N 2209/16 . having other properties
 - D06N 2209/1607 .. Degradability
 - D06N 2209/1614 ... Biodegradable
 - D06N 2209/1621 ... Water-soluble, water-dispersible
 - D06N 2209/1628 .. Dimensional stability
 - D06N 2209/1635 .. Elasticity
 - D06N 2209/1642 .. Hardnes
 - D06N 2209/165 .. Odour absorbing, deodorizing ability
 - D06N 2209/1657 .. Printability
 - D06N 2209/1664 .. Releasability ([adhesive allowing removal of the whole carpet D06N 2213/066](#); [releasability between at least two layers of a carpet, rug or synthetic lawn D06N 2213/068](#))
 - D06N 2209/1671 .. Resistance to bacteria, mildew, mould, fungi
 - D06N 2209/1678 .. Resistive to light or to UV

- D06N 2209/1685 .. Wear resistance
- D06N 2209/1692 .. Weather resistance

D06N 2211/00 **Specially adapted uses**

- D06N 2211/02 . Agriculture
- D06N 2211/04 . Belts
- D06N 2211/06 . Building materials
- D06N 2211/063 .. Wall coverings
- D06N 2211/066 .. Floor coverings
- D06N 2211/08 . Cleaning articles ([personal care D06N 2211/24](#))
- D06N 2211/10 . Clothing
- D06N 2211/103 .. Gloves
- D06N 2211/106 .. Footwear
- D06N 2211/12 . Decorative or sun protection articles
- D06N 2211/122 .. Curtains
- D06N 2211/125 .. Awnings, sunblinds
- D06N 2211/127 .. Table cloth
- D06N 2211/14 .. Furniture, upholstery
- D06N 2211/16 .. Geotextiles
- D06N 2211/18 .. Medical, e.g. bandage, prostheses, catheter ([medical patches D06N 2211/22](#); [medical packaging D06N 2211/20](#))
- D06N 2211/20 .. Packaging
- D06N 2211/22 .. Patches, e.g. medical patches, repair patches
- D06N 2211/24 .. Personal care
- D06N 2211/26 .. Vehicles, transportation
- D06N 2211/261 ... Body finishing, e.g. headliners
- D06N 2211/262 ... Constructional panels
- D06N 2211/263 ... Cars
- D06N 2211/265 ... Trains
- D06N 2211/266 ... Ships
- D06N 2211/267 ... Aircraft
- D06N 2211/268 ... Airbags
- D06N 2211/28 .. Artificial leather
- D06N 2211/30 . Filters

D06N 2213/00 **Others characteristics**

- D06N 2213/02 . All layers being of the same kind of material, e.g. all layers being of polyolefins, all

layers being of polyesters

- D06N 2213/03 . Fibrous web coated on one side with at least two layers of the same polymer type, e.g. two coatings of polyolefin
- D06N 2213/04 . Perforated layer
- D06N 2213/045 .. the coating layer does not completely close the openings between the fibres]
- D06N 2213/06 . Characteristics of the backing in carpets, rugs, synthetic lawn
- D06N 2213/061 .. Non-continuous back coating or pre-coat
- D06N 2213/063 .. Porous back coating or pre-coat
- D06N 2213/065 .. Two back coatings one next to the other
- D06N 2213/066 .. having an adhesive on the undersurface to allow removal of the whole carpet, rug or synthetic lawn from the floor, e.g. pressure sensitive adhesive
- D06N 2213/068 .. Releasability between at least two of the layers